

**United States Environmental Protection Agency  
Region V  
POLLUTION REPORT**

**Date:** Thursday, July 03, 2003

**From:** Steven Faryan

EPA Region 5 Records Ctr.



344855

**Subject:** Lockformer  
711 Ogden Avenue, Lisle, IL  
Latitude: 41.8017000  
Longitude: -88.0625000

**POLREP No.:** 7

**Site #:** B5Y5

**Reporting Period:** 1 June 2003 to 2 July 2003

**D.O. #:**

**Start Date:**

**Response Authority:** CERCLA

**Mob Date:** 7/22/2002

**Response Type:**

**Demob Date:**

**NPL Status:**

**Completion Date:**

**Incident Category:** Removal Action

**CERCLIS ID #:**

**Contract #**

**RCRIS ID #:**

**Site Description**

See site Profile Page

**Current Activities**

U.S. EPA OSC Steve Faryan and Weston Solutions Inc. (WSI) START Member provide oversight, while PRP contractors initiated remediation of the surficial silty clay till and fill in Area 2 with Electrical Resistive Heating (ERH) technology and the mass waste sand and gravel in Area 1 and 2 with SVE technology. OSC and START also provided oversight for the air monitoring and sampling conducted by the PRP during operation of the SVE system and ERH system.

**SVE System**

- All SVE wells and vapor piezometers are installed in Area 1 and 2.
- Above and below surface SVE piping is complete in Area 1 and 2.
- The SVE manifold (48 SVE Extraction wells) in the remediation building is complete.
- Security system is installed in the remediation building.
- Clayton Group Services, Inc. and Fliteway Technologies, Inc. conducted inspection and testing of the SVE system.
- On 10 June 2003, remediation of Area 1 and Area 2 mass waste unit with the SVE system was initiated.

**ERH System**

- All electrodes are installed in Area 1 and 2. Installation of eleven electrodes in the degreaser pit area are yet to be installed.
- All temperature probes are installed in Area 1 and 2. Two temperature probes in the degreaser area have yet to be installed.

- All vacuum piezometers are installed.
- ERH remediation fence is erected and proper signs are displayed.
- Double beam security system is installed around the perimeter of the plenum.
- All ERH equipment (PCU, blower, condenser, cooling tower, heat exchanger) is on site.
- The hook-up of the ERH system in Area 2 is complete.
- Thermal Remediation Services Inc. and Lockformer's private electrician conducted inspection and testing of the ERH system in Area 2.
- On 24 June 2003, the ERH system was turned on in Area 2.
- On 30 June 2003, the temperature of the surficial silty clay till and fill in Area 2 is at 15 degrees C

#### Common Features for SVE/ ERH System

- The construction of the remediation building is complete.
- Site perimeter fence is erected and proper signs are displayed.
- Weather station is installed onsite and is operating.
- SVE/ ERH software is installed and operating, so that the SVE and ERH system can be monitored and controlled through a computer on site and off site.
- On 11 and 12 June 2003, Lisle Fire and Police department were given a walkthrough and orientation of the site.

#### Sampling and Air Monitoring

- The hydrocarbon analyzer is installed and operating. Air monitoring is being conducted from five different ports (ERH inlet, SVE/ERH inlet, Intermediate/ after first vapor carbon, stack/effluent and inside Lockformer plant).
- Hydrocarbon analyzer readings for the ERH inlet ranged from 20 ppm-167 ppm, SVE/ERH inlet ranged from 20 ppm-78 ppm, Intermediate/ after first vapor carbon ranged from 17 ppm-44 ppm, stack/effluent ranged from 15 ppm-44 ppm and inside Lockformer plant ranged from 1.6 ppm-3.8 ppm.
- Background samples were collected from all sample locations.
- Outside perimeter and indoor ambient air monitoring was conducted using a Miran Sapphire and/or PID.
- Outside perimeter readings have been not-detects (ND) and indoor ambient air monitoring ranged from 1.0 ppm-1.8 ppm.
- Summa canister samples were collected from the ERH inlet, SVE/ERH inlet, Intermediate/ after first vapor carbon, stack/effluent, inside Lockformer plant, site perimeter and residential area. U.S. EPA method TO-15 is being used.
- Summa canister sample data while SVE was operating and prior to ERH start-up shows that TCE concentrations from the SVE inlet range from 9.5 ppm- 11 ppm, Intermediate/ after first vapor carbon ND-0.0035 ppm, stack/effluent ND-0.0016, inside Lockformer plant ND-0.0018 and site perimeter and residential area TCE was not detected.
- Tedlar bag samples were collected from the ERH inlet, SVE/ERH inlet, Intermediate/ after first vapor carbon, stack/effluent, inside Lockformer plant, SVE extraction wells (48 wells) and vacuum piezometers (25 wells) and screened with a Miran Sapphire and/or PID. Certain samples were also sent to a local lab for quick turnaround. U.S. EPA method 18 is being used.

#### Planned Removal Actions

- PRP will continue remediating the surficial silty clay till and fill in Area 1, 2 with Electrical Resistive Heating (ERH) technology.

- PRP will continue remediating the mass waste sand and gravel in Area 1 and 2 with SVE technology.

#### **Next Steps**

- Continue remediating the surficial silty clay till and fill in Area 2 with Electrical Resistive Heating (ERH) technology and the mass waste sand and gravel in Area 1 and 2 with SVE technology.
- Install the eleven electrodes and two temperature probes in the degreaser area.
- Hook-up the ERH system in Area 1 and degreaser area.
- Start remediating surficial silty clay till and fill in Area 1 and degreaser area.
- Continue conducting air monitoring and sampling.

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